

plantuml in orgmode

drawing in plain text

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Outline

1. Introduction

2. PlantUML Diagrams

3. Conclusion





PlantUML in Orgmode

This file demostrates:

- How to draw in UML with plantuml in orgmode
- And create PDF slides from orgmode



Emacs and Orgmode version

Firstly, let's check Emacs¹ and Orgmode² version:

```
(concat (emacs-version)
    "\nOrgmode " (org-version))
```

```
GNU Emacs 28.0.50 (build 7, x86_64-w64-mingw32) of 2021-07-15 Orgmode 9.4.4
```



¹https://www.gnu.org/software/emacs

²https://orgmode.org

Emacs Configuration

You may need to use my emacs config:

```
# backup existing emacs config
cd ~ && mv .emacs .emacs-backup && mv .emacs.d .emacs.d-backup
# clone this config
git clone https://github.com/kimim/kimim-emacs
# copy default .emacs to ~
cp kimim-emacs/.emacs ~
```



PlantUML

Download plantuml.jar³, and set jar-path:



³https://plantuml.com

TexLive and Beamer Theme

Install TexLive⁴ to <texlive-path> and clone beamertheme-kimim⁵, and update T_FX cache:

```
git clone https://github.com/kimim/beamertheme-kimim \
    <texlive-path>/texmf-local/tex/latex/beamertheme-kimim
mktexlsr
```



⁴http://tug.org/texlive

⁵https://github.com/kimim/beamertheme-kimim

Inkscape

Install Inkscape⁶ to convert SVG image to PDF. This is inkscape version on my Windows 10:

inkscape --version

Inkscape 1.0.2-2 (e86c870879, 2021-01-15)



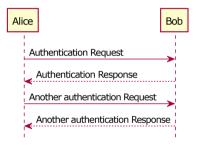
⁶https://inkscape.org



Sequence Diagram

Let's draw a simple sequence diagram with this plantuml code:

@startuml
hide footbox
hide unlinked
Alice -> Bob: Authentication Request
Bob --> Alice: Authentication Response
Alice -> Bob: Another authentication Request
Alice <-- Bob: Another authentication Response
@enduml</pre>

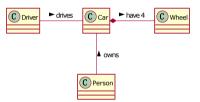




Class Diagram

A simple class diagram

```
@startuml
class Car
Driver - Car : drives >
Car *- Wheel : have 4 >
Car -- Person : < owns
@enduml</pre>
```







Key Takeaways

- · Emacs is a long lasting, and wonderful text editor
- Orgmode is an awesome plain text format
- LATEX and Beamer is great typesetting tool
- Thus, drawing plantuml diagram with these tools is cool!



